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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,109	04/18/2006	Toshio Miura	045616/210443	1833
825 7590 9M172908 ALSTON & BISO LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE. NC 2826-4000			EXAMINER	
			LE, HOANGANH T	
			ART UNIT	PAPER NUMBER
	,	2821		
			MAIL DATE	DELIVERY MODE
			03/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/576,109 MIURA, TOSHIO Office Action Summary Examiner Art Unit HoangAnh T. Le 2821 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 18 April 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of
2) Notice of

1) Notice of References Cited (PTO-892)

Notice of Praftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 4/18/06.

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date.____.

5) Notice of Informal Patent Application

6) Other: _____.

Application/Control Number: 10/576,109 Page 2

Art Unit: 2821

DETAILED ACTION

Applicant's cooperation is requested in correcting any errors of which applicant
may become aware in the specification.

2. The Preliminary Amendment filed on April 18, 2006 is acknowledged.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

 Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Graggs et al (the US 2006/0001591).

Regarding claim 1, the Graggs et al reference teaches in figure 4A a directional antenna device comprising an antenna unit 400 having directivity provided on a fixed body 418 fixed at a predetermined position, the antenna unit receiving a radio wave in a microwave band transmitted from a communication unit provided on a movable mobile body, characterized in that the antenna unit includes: a plurality of directional antennas 406, 402 420 provided to have directivities in different directions; and a reception

Application/Control Number: 10/576,109

Art Unit: 2821

selecting unit 408 for selecting one of the plurality of directional antennas, which is arrange to be oriented in a transmission direction in which the radio wave travels to reach the fixed body, to receive the radio wave.

Regarding claim 2, each of the directional antennas 406,402,420 has a directional characteristic corresponding to a predetermined area; and the reception selecting unit selects one of the directional antennas, which has received the most intense radio wave within the directional characteristic corresponding predetermined area.

Regarding claim 3, wherein each of the directional antennas has a tip and the directional antennas are radially arranged so that the tips are oriented outward, axes of the plurality of directional antennas intersecting at a base point, the directional antennas are being arranged in different three- dimensional directions at predetermined angular intervals, when viewed from the base point (figure 4A).

Regarding claim 4, the predetermined angle angular interval is 45° on an air-toground horizontal surface or an air-to-ground vertical surface (figure 4A).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chatelain, Adcock et al and Bunker are cited to show directional antennas being arranged in different three dimensional directions at predetermined angular intervals. Art Unit: 2821

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T. Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HoangAnh T Le/ Primary Examiner, Art Unit 2821